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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
09/394,379	09/10/1999	KYOUNG SUB KIM	008733-D7151	4146
75	90 04/03/2002			
SONG K. JUNG			EXAMINER	
LONG ALDRIDGE & NORMAN, LLP SIXTH FLOOR			QI, ZHI QIANG	
701 PENNSYL	VANIA AVENUE			
WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER
			2871	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)			
Office Action Summary		09/394,379	KIM, KYOUNG SUB			
		Examiner	Art Unit			
		Mike Qi	2871			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH THE I - External after - If the - If no - Failu - Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be t within the statutory minimum of thirty (30) da ill apply and will expire SIX (6) MONTHS fror cause the application to become ABANDON	imely filed ays will be considered timely. In the mailing date of this communication; ED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on					
2a)□	,	s action is non-final.	and a solution as to the movite is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims					
,	Claim(s) 1-23 is/are pending in the application					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-23</u> is/are rejected.					
	Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and/or	election requirement.	^ก วัก _{รู้} ,			
	ion Papers The appeiding tion is abjected to by the Everyings					
•	The specification is objected to by the Examiner		aminer			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappr				
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
* 5	Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the control of the control of the certification.	eau (PCT Rule 17.2(a)).				
14) 🗌 A	Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119	(e) (to a provisional application).			
 a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachmen	t(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152) 6) Other:						

Application/Control Number: 09/394,379

Art Unit: 2871

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant admitted prior art in view of US 5,739,880 (Suzuki et al).

Claims 1 and 15, Applicant admitted prior art discloses (page 2, line 24 – page 4, line 20; Figs.1-2 of the specification) a liquid crystal display device having light source (20) and comprising:

- a first substrate (4);
- a second substrate (6) having first and second surfaces (upper and lower surfaces), wherein the first surface (upper surface) is disposed against the first substrate (4).

Applicant admitted prior art does not expressly disclose a non-transparent film coated on periphery of the second surface (lower surface) of the second substrate.

Applicant admitted prior art discloses a black pattern (24) (non-transparent film) is printed on the left edge of the protective sheet (10a) and it is on the lower surface of the second substrate (6).

However, Suzuki discloses (col.12, line 28 – col.15, line 51; Figs.2-9) that a liquid crystal display device having a shield tape (TAPE) is stuck to the lower face of the lower

Application/Control Number: 09/394,379

Art Unit: 2871

substrate (SUB1) at the portion in which the seal member (SL) and the black matrix (BM) are not overlapped, and the shield tape (TAPE) is preferable black, and the shielding means is a shielding coating film, so as to prevent the leakage of the back light (BLL). The shield tape (TAPE) is along the seal member (SL) (see Figs. 2 and 9), such that the shield tape (TAPE) is coated on the periphery of the lower face of the lower substrate to black the light emitted from the light source.

Suzuki indicates (col.15, lines 3-11) that the shield tape (TAPE) is stuck to the outside of the substrate (SUB1), and the light (BLL) emitted from the back light is interrupted at the portion other than the display region by the black matrix (BM) and the shield tape (TAPE), so that a color liquid crystal display element having an excellent display quality.

Therefore, it would have been obvious to those skilled in the art to use a non-transparent black film coated on periphery of the lower surface of the lower substrate as claimed in claims 1 and 15 for preventing the light leakage from the back light and achieving an excellent display quality.

Claims 2 and 16, Applicant admitted prior art discloses (Fig.1-2) that the black matrix (BM) (non-transparent material) is formed in the periphery portion and is formed on the lower surface (second surface) of the upper substrate (4) (first substrate).

Claims 3 and 17, the black matrix (non-transparent material) is formed on the upper surface (first surface) of the lower substrate (second substrate) would have been at least an obvious variation according to the different application to improve the display contrast.

Application/Control Number: 09/394,379

Art Unit: 2871

Claims 6 and 20, see the explanation of Suzuki above, Suzuki discloses (Fig.9) that the shield tape (TAPE) (non-transparent film) and the black matrix (BM) (non-transparent material) are partially overlapping throughout the periphery of the lower substrate (SUB1) (second substrate), so as to block the light leakage from the back light (BLL).

Claims 9-10, Applicant admitted prior art (Figs.1-2) discloses that a sheet material (10) includes a protective sheet (10a), a prism sheet (10b) and a diffusion sheet (10c) and disposed between the light source (20) and the second substrate (6).

Claim 11, Applicant admitted prior art discloses (Fig.1-2) that the black matrix (BM) (non-transparent material) is formed in the periphery portion and is formed on the lower surface (second surface) of the upper substrate (4) (first substrate).

Claim 12, see the explanation of Suzuki above, Suzuki discloses (Fig.9) that the shield tape (TAPE) (non-transparent film) and the black matrix (BM) (non-transparent material) are partially overlapping throughout the periphery of the lower substrate (SUB1) (second substrate), so as to block the light leakage from the back light (BLL).

Claims 4-5, 7-8, 13-14, 18-19, 21-22, Applicant admitted prior art (Figs.1-2) the non-transparent is a black matrix (26); the non-transparent film is a black pattern (24) (black film).

Claim 23, Applicant admitted prior art discloses (page 4, lines 3-5 of the specification) that the black pattern (24) (black film) is printed. Suzuki discloses (col.15, lines 49-51) that the shielding means (black film) is a shielding coating film. Therefore, it

Art Unit: 2871

would have been at least obvious to make a black film using printing process or coating

process.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mike Qi whose telephone number is (703) 308-6213.

The examiner can normally be reached on 349.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Sikes can be reached on (703) 308-4842. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 308-7721

for regular communications and (703) 308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

Mike Qi March 26, 2002 TOANTON PRIMARY EXAMINER

Page 5